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## NOTICE OF ALLOWANCE AND FEE(S) DUE

30827

7590

03/29/2004

MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006 EXAMINER AKKAPEDDI, PRASAD R

PAPER NUMBER

ART UNIT

DATE MAILED: 03/29/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,839	04/10/2001	Jeong Ki Park	8733.424.00	7529

TITLE OF INVENTION: LIQUID CRYSTAL DISPLAY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/29/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
   See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

appropriate. All further con	respondence including the I below or directed otherwise	Patent, advance order	rs and notification	of maintenance fees	uired). Blocks 1 through 4 s will be mailed to the current s; and/or (b) indicating a sepa	correspondence address as	
	TE ADDRESS (Note: Legibly mark-up	with any corrections or use		Fee(s) Transmittal. T papers. Each addition	of mailing can only be used for this certificate cannot be used all paper, such as an assignment to of mailing or transmission.	for any other accompanying	
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.			
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	FIR	ST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/828,839	04/10/2001		Jeong Ki Park		8733.424.00	7529	
TITLE OF INVENTION: L	IQUID CRYSTAL DISPLA	Y					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PU	BLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330		\$300	\$1630	06/29/2004	
EXAM	IINER	ART UNIT	CL	ASS-SUBCLASS	٦		
AKKAPEDD	I, PRASAD R	2871	<u> </u>	349-040000	_		
Address form PTO/SB/1  "Fee Address" indicati PTO/SB/47; Rev 03-02 Number is required.  3. ASSIGNEE NAME AND	on (or "Fee Address" Indicated or more recent) attached. Use DRESIDENCE DATA TO B an assignee is identified beld to the USPTO or is being s	ion form of a Customer  E PRINTED ON THE low, no assignee data submitted under separa	firm (having as a agent) and the naı attorneys or agent will be printed.  E PATENT (print o will appear on the ate cover. Complet:		assignee data is only appropri	ate when an assignment has ignment.	
Please check the appropriate  4a. The following fee(s) are  Issue Fee  Publication Fee  Advance Order - # of		4b. Pa	ayment of Fee(s): A check in the amo	ount of the fee(s) is er card. Form PTO-2033 ereby authorized by o		credit any overpayment, to	
Director for Patents is reque	sted to apply the Issue Fee ar				issue fee to the application ide	<del></del>	
(Authorized Signature)		(Date)					
other than the applicant; interest as shown by the re	d Publication Fee (if require a registered attorney or age cords of the United States Pa	ent; or the assignee of tent and Trademark C	or other party in Office.				
completed application for case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT SEND TO: Commissioner	ation is required by 37 CFR by the public which is to fit y is governed by 35 U.S.C. I tes to complete, including gem to the USPTO. Time will the amount of time you rhis burden, should be sent office, U.S. Department of END FEES OR COMPLE for Patents, Alexandria, Virgulation, and the complete of the c	all vary depending upon the complete of the Chief Information of Commerce, Alex TED FORMS TO Training 22313-1450.	on the individual this form and/or tion Officer, U.S. candria, Virginia HIS ADDRESS.				



#### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

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09/828,839	04/10/2001	Jeong Ki Park	8733.424.00 7529		
30827 7590 03/29/2004		EXAMINER			
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW			AKKAPEDDI, PRASAD R		
WASHINGTON	•		ART UNIT	PAPER NUMBER	
			2871		
			DATE MAILED: 03/29/2004	4	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 399 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 399 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

48

	Application No.	Applicant(s)			
Notice of Allowability	09/828,839 Examiner	PARK ET AL.  Art Unit			
, , , , , , , , , , , , , , , , , , ,	Lammer				
	Prasad R Akkapeddi	2871			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS			
1. This communication is responsive to <u>01/05/2004</u> .					
2. The allowed claim(s) is/are <u>1-5</u> .					
3. $\boxtimes$ The drawings filed on <u>10 April 2001</u> are accepted by the Ex	xaminer.				
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.					
<ul> <li>6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> <li>7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the</li> </ul>					
attached Examiner's comment regarding REQUIREMENT					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Informal P	atent Application (PTO-152)			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary				
	Paper No./Mail Date	te <u>03/08/2004</u> .			
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/09/2003</li> </ol>	8), 7. 🛛 Examiner's Amendr	nent/Comment			
4.   Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance			
of Biological Material	9.				

Art Unit: 2871

#### **EXAMINER'S AMENDMENT**

## Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The title has been changed to: "Liquid Crystal Display with Electrostatic Protection Circuits".

#### In the Claims

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Rebecca Goldman Rudich on 03/08/2004.

The application has been amended as follows:

(a) Cancel claims 6-30.

Application/Control Number: 09/828,839

Art Unit: 2871

#### **DETAILED ACTION**

## Response to Amendment

3. Applicant's arguments, see amendment, filed 01/05/2004, with respect to claims 1-5 have been fully considered and are persuasive. The rejection of 10/31/2003 has been withdrawn.

## Allowable Subject Matter

- 4. Claims 1-5 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

A search of the prior art did not disclose a liquid crystal display device comprising a combination of structural elements, more specifically:

(a) A common electrode intersecting the signal lines, thereby forming first and second signal-line portions and wherein the first and second electrostatic protecting circuits are substantially aligned with each other on opposite side of the common line.

In addition to the previously cited prior art, the following prior art also does not teach or disclose the recited limitations of the instant claims; for example

- (a) Van Berkel (U.S.Patent No. 5,371,351) discloses that the electrostatic protection circuits (3,4) are connected to only one side of the common line (6) and the signal line (5)
- (b) Hebiguchi (U.S.Patent No. 5,497,146) discloses that the electrostatic protection circuits (28) are outside the signal lines (18) and the data lines (16)

Application/Control Number: 09/828,839

Art Unit: 2871

(c) Kim (U.S.Patent No. 6,072,550) discloses the electrostatic protection circuits (R) are only on one side of the signal lines (12) and data lines (20) and

(d) Wu (U.S.Patent No. 6,175,394) discloses that the electrostatic protection circuits (50) are outside the signal (118) and data lines (130).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prasad R Akkapeddi whose telephone number is 571-272-2285. The examiner can normally be reached on 7:00AM to 5:30PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/828,839

Art Unit: 2871

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Prasad R Akkapeddi, Ph.D Examiner Art Unit 2871

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